### TECHNICAL DATA SHEET

# TRICOLENE LLB1919

**Linear Low Density Polyethylene** 

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**APPLICATIONS** 

#### PRODUCT DESCRIPTION

PROCESSING METHODS

This type of LLDPE is a copolymer of ethylene and 1-butene produced with Ziegler-Natta catalysts in a gas phase polymerization process.

**CHARACTERISTICS** 

Blown Film (Co)Extrusion	Good Mechanical Properties Good Mixing with LDPE		Trash Bags Agricultural Films Liners for Drums	
RESIN PROPERTIES	TEST METHOD	VALUE	S, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Melt Flow Rate 2.16 kgf/190 °C MFR <sub>2</sub> Density 23 °C  Processing Aid Antioxidant Package	ASTM D1238 ASTM D1505 		<b>1.1</b> g/10 min <b>0.919</b> g/cm <sup>3</sup> <b>None</b> <b>Yes</b>	<b>1.1</b> g/10 min <b>0.919</b> g/cm <sup>3</sup> <b>None</b> <b>Yes</b>
BLOWN FILM PROPERTIES	TEST METHOD	VALUE	S, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Evaluated Film Thickness Dart Impact Strenght 38.0 mm (1.5 in), 0.66 m (26.0 in), F50	 ASTM D1709A		<b>1.0</b> mils <b>120</b> g	<b>25.4</b> μm <b>120</b> g
Elmendorf Tear Strenght	ASTM D1922	MD	<b>130</b> g	<b>130</b> g
Tensile Strenght at Break 20,0 in/min (508 mm/min)	ASTM D882	TD MD TD	<b>490</b> g <b>5,500</b> psi <b>3,500</b> psi	<b>490</b> g <b>38</b> MPa <b>24</b> MPa
Tensile Elongation at Break 20,0 in/min (508 mm/min)	ASTM D882	MD TD	800 % 950 %	800 % 950 %
Tensil Secant Modulus of Elasticity 1 % Elongation, 0,051 in/min (1,3 mm/min)	ASTM D882	MD TD	<b>27,000</b> psi <b>33,000</b> psi	<b>186</b> MPa <b>228</b> MPa
Haze	ASTM D1003		9.0 %	9.0 %
PROCESSING CONDITIONS OF EVALUATE	D FILM	VALUE	S, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Die Diameter Die Gap Melt Temperature Blow-up Ratio, BUR Output Specific Output Take-off Speed			6.0 in 100 mils 450 ° F 2.5 100.0 Lb/h 5.31 Lb/h/in 800.0 ft/min	152 mm 2.5 mm 232 ° C 2.5 45.4 kg/h 0.09 kg/h/cm 243.9 m/min

## The data presented here is true and accurate to the best of our knowledge. Likewise, the values are nominal and should not be taken as minimum or maximum specifications. No warranty, express of implied, is made regarding resin performance. The customer must validate these properties according to his own evaluations on his machine and in his laboratory.

#### **REGULATORY COMPLIANCE**

This resin complies with the following FDA regulation: 21 CFR 177.1520: Olefinic Polymers. This regulation describes polyolefin resins that can be used safely for food packaging and preservation at low temperatures and at ambient temperatures. This resin is not designed for use in medical applications and should not be used in such applications.

